Intellihot

BY zurn elkay WATER SOLUTIONS



Right-Sizing Tankless Water Heating Systems for Commercial Buildings

Program #: ZE-IH001
Credits: AIA 1.0 LU/HSW, ASPE 1.0 CEU/PDH*, GBCI 1.0 CE

Learning Objectives:

1. Understand how to use legacy methods to size commercial tankless water heaters.
2. Learn the unintended consequences of oversizing that legacy methods introduce into system design.
3. Determine the correct BTU output and flow rate requirements for commercial applications to prevent oversizing or undersizing systems.
4. Design commercial tankless water heating systems with built-in N+1 redundancy to maintain reliability without adding excessive equipment costs.
5. Explain how rightsizing water heaters reduces upfront capital expenditure, lowers energy consumption and minimizes carbon emissions.

HSW: Yes **PDH:** Yes*

Description: This presentation outlines how to right-size commercial tankless water heaters using real-world usage data.

It contrasts traditional sizing methods, such as the Modified Hunter's Curve, with a data-backed approach that analyzes actual flow rates from thousands of connected facilities. By preventing oversizing, this method reduces equipment costs, saves space, improves energy efficiency and ensures reliable hot water delivery.

AIA Continuing Education Provider

ASPE CEU PROVIDER

GBCI

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